Oracle Enterprise Resource Planning Cloud
Service Implementation Leading Practice
Release 12

ORACLE WHITE PAPER | MARCH 2017
## Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Project Planning Framework</td>
<td>2</td>
</tr>
<tr>
<td>Environment Management</td>
<td>2</td>
</tr>
<tr>
<td>Accessing environments</td>
<td>3</td>
</tr>
<tr>
<td>How to Stay Informed and How to Request Support</td>
<td>6</td>
</tr>
<tr>
<td>Project and Environment Usage Planning</td>
<td>7</td>
</tr>
<tr>
<td>Stage/Test Environment</td>
<td>8</td>
</tr>
<tr>
<td>Additional Environments</td>
<td>9</td>
</tr>
<tr>
<td>Production Environment</td>
<td>9</td>
</tr>
<tr>
<td>Manage and Monitor Your Own Services</td>
<td>10</td>
</tr>
<tr>
<td>Cloud Updates</td>
<td>10</td>
</tr>
<tr>
<td>Concurrent Updates</td>
<td>11</td>
</tr>
<tr>
<td>Upgrades</td>
<td>11</td>
</tr>
<tr>
<td>Key Implementation Considerations</td>
<td>12</td>
</tr>
<tr>
<td>Overall key considerations for any Oracle ERP Cloud Service</td>
<td>12</td>
</tr>
<tr>
<td>Key considerations specific to Oracle Financials Cloud Service</td>
<td>15</td>
</tr>
<tr>
<td>Key considerations specific to Oracle Revenue Management Cloud Service</td>
<td>20</td>
</tr>
<tr>
<td>Key considerations specific to Oracle Project Portfolio Management Cloud Service</td>
<td>21</td>
</tr>
<tr>
<td>Key considerations specific to Oracle Procurement Cloud Service</td>
<td>22</td>
</tr>
<tr>
<td>Data Migration, Integration and Extensibility</td>
<td>23</td>
</tr>
<tr>
<td>Inbound Integration</td>
<td>23</td>
</tr>
<tr>
<td>Outbound Integration</td>
<td>27</td>
</tr>
</tbody>
</table>
Content Migration
Extensibility

Post Implementation Leading Practices
  Implement a Shared Support Model
  Documentation
  Performance Monitoring
  Continuous Training
  Cloud Notifications
  User Experience/Security
  Integration Monitoring & Troubleshooting
  Update Testing

Conclusion
Introduction

This white paper provides implementation leading practices to system integrators who are about to assist customers with new Oracle Enterprise Resource Planning (ERP) Cloud Service implementations. It is a living document that will evolve as service policies and features evolve.

This document examines the primary factors to consider when planning for and managing a successful Oracle ERP Cloud Service implementation project:

» Outlines the project planning framework available with the Oracle Unified Method (OUM) Cloud Application Services Implementation Approach.
» Explains the provisioning of environments, cloud updates and upgrades provided with the Oracle ERP Cloud Service.
» Highlights key implementation considerations.
» Details the data migration, data integration, and system extensibility capabilities available with Oracle ERP Cloud Service.
» Proposes post implementation leading practices to consider for successful continuous operations.

The information in this white paper is current for Oracle ERP Cloud Service on Release 12. All referenced solutions exist in the Oracle ERP Cloud Service today.
Project Planning Framework

The Oracle Unified Method (OUM) Implementation Approach for Oracle Applications Cloud is Oracle's lightweight approach for implementing applications running on a cloud infrastructure. It emphasizes an out-of-the-box approach and adoption of Leading Practices inherent in the application products as a foundational element of the approach.

It is currently available on the Oracle Partner Network Portal to Diamond, Platinum, and Gold Partners as a benefit of the membership.

The OUM Customer Program allows customers to obtain copies of the method for their internal use – including guidelines, templates, and tailored work breakdown structure. Customers who qualify for access through the OUM Customer Program are able to download the method materials from the Oracle OUM Program blog.

Approach Structure by Phase

The current release of the OUM Implementation Approach for Oracle Applications Cloud consists of:

- Method Guidance (including a Work Breakdown Structure)
- Implementation Approach Overview Course
- MS Office Templates

Training includes an Overview course and a Delivery Readiness course, which is accessible to Oracle partners from the OUM Knowledge Zone on the OPN Portal.

Environment Management

A standard Oracle ERP Cloud Service subscription provides two environments:

- Stage/Test
- Production
These two environments are identical in size when provisioned. During the implementation; however, the size of the production environment can be increased for optimal performance of the production environment. Environments are provisioned with English as the default language, however, if requested upon subscription of Oracle ERP Cloud Service; additional languages will also be applied to the stage/test and production environments.

In some cases, you might want to request special-purpose environments in addition to the standard production and stage/test environments provided with the service. These additional environments, explained later on in this white paper, behave like stage/test environments. To add additional language support for additional environments you must raise a Service Request at the start of the project for the appropriate language packs to be installed on the additional environments.

**Implementation tip:** We recommend that you identify your sizing requirements for your environments early in the implementation and ensure that they are adjusted in advance of when you need to support that number of users and transaction volume. Review the white paper on My Oracle Support Document ID: 2015718.1 on ‘Oracle Applications Cloud – Environment Resizing’ and fill in the questionnaire and provide it to Oracle Cloud Operations when you raise a Service Request to have the environment(s) resized. This will help minimize delays in your implementation.

**Accessing environments**

Designated Service Administrators will receive automated emails when the environments are provisioned for an Oracle ERP Cloud customer:

A service activation email with details of your Oracle profile, URLs to access the Cloud Portal, subscription details for your new environments, Customer Support Identification (CSI) number and useful links to My Oracle Support websites help you get started.

» An email with login credentials and environment URLs will be sent for each provisioned environment e.g., at minimum one email when the Stage/Test environment is ready for use and another email when the production environment is ready for use.

» If subscribing to the Automated Invoice Processing Service a notification email will be sent containing the email address to use for invoice images.

The identity of the designated Service Administrator is determined based on the contact information provided by the customer when the Cloud subscription contract is signed and should ideally be a person who is assigned to work full time on the implementation project. Be aware that a Service Administrator assigned to the production environment can be different from the Service Administrator assigned to the stage/test environment. System integrators need to obtain the CSI number from the customer to engage with Oracle Support on service requests.
A service administrator can:

- See the services assigned and resend service activation emails
- Manage ERP Cloud Service and change the Secure File Transfer Protocol (SFTP) password
- Receive the environment access email with the environment logins and URLs
- Follow the instructions on Service Administrator Action List
- Create additional users (incl. additional service administrators) and set up security profiles
- Add other users or distribution lists that need to receive downtime notifications
- Manage optional service entitlements through support
- Coordinate upgrade scheduling in advance of each new upgrade

**Implementation tip:** Set up additional service administrators for each environment to ensure that if a designated service administrator leaves the company, Oracle’s Cloud notifications will still be sent to other service administrators in the company.
A link is provided in the Service Administrator Action List to an article on My Oracle Support (Doc ID: 2046113.1) called Oracle Enterprise Resource Planning Cloud: Get Started with your Implementation, which will help you progress quickly with the implementation.

**Implementation tips:**

1) Ensure user access to essential business functions: Check if all users, other than implementation users, should be registered as employees first. It is good practice to create the relevant users as employees first and then let the application create user accounts for them to ensure critical business functions will work.

2) Adding users who need to receive system availability notifications: A Leading Practice that has worked for many customers is to establish a distribution list by the internal email administrator and the customer’s ERP staff and system integrators are subscribed to that distribution list. The Service Administrator can then add that distribution list as a notification user of the Oracle ERP Cloud Service. The people receiving the system availability notifications need not be service administrators.
How to Stay Informed and How to Request Support

Connected customers experience more value, loyalty, and satisfaction. Customer Connect is one great way customers can stay connected and get the most from their Oracle products. The more customers that join, the more value all customers experience. So, get your customers signed up today!

Customer Connect provides an Enterprise Resource Planning page which consolidates content from ERP including Financials, Project Portfolio Management, Procurement and Revenue Management. On this page, customers can find great resources such as ‘Getting Started with ERP’ videos, release documentation, and quick links to ERP-related Forums, Event calendars, and Idea Labs on the community. The page can also be accessed from the Forums menu, or by clicking the ERP icon under the Forums section on the Customer Connect homepage.

Figure 4. Value proposition exhibit for Application Customer Connect

There are several things customers can do when joining the Oracle Customer Connect Community:

- Events: Be the first to know about upcoming events that showcase new release functionality, and more.
• Get Questions Answered: Use discussion forums to pose questions, explore ideas, and discuss Oracle Applications.
• Drive the Roadmap: Share ideas on product enhancements, vote and comment on ideas.

Signing up is easy for customers by going to the Customer Connect home page.

There is a wealth of good documentation available on the cloud.oracle.com, docs.oracle.com, fusionhelp.oracle.com and support.oracle.com websites that will help you progress with your Oracle ERP Cloud implementation.

If you encounter product issues during the project implementation, you can request support from Oracle. When requesting support from Oracle for Oracle ERP Cloud follow these instructions:

Log on to My Oracle Support (MOS).
1. Select Create SR from the Services Request section or tab.
2. Under the ‘What is the Problem’ section, enter Problem Summary (e.g., Enable Single Sign On).
3. Under the ‘Where is the Problem’ section, select the Cloud tab and enter the following:
   » Service Type: Oracle Enterprise Resource Planning Cloud Service, or other Cloud Service.
   » Environment: Select the environment for which you need the service applied.
   » Problem Type: Hosting Services
   » Support Identifier: Defaults to your CSI number.
4. Click next and provide information requested.
   » The system will prompt you to answer a series of questions.
     • For Question 1, select the option that most closely reflects the issue you need addressed. Each option may be followed by a question mark (?) so you can review help text and related service entitlements.
     • For Question 2, select the specific service request (SR) that you need fulfilled (e.g., Environment Refresh; Federated Single Sign-on; Language Packs).
     • Answer all subsequent questions to provide details needed to fulfill your request.
     • Click next to provide your contact details.
     • Click Submit to complete your request

A comprehensive list of requests, which can be raised with Oracle Cloud Operations, is available on My Oracle Support in the article on Oracle Applications Cloud Service Entitlements (Doc ID 2004494.1).

All Oracle Cloud Services are subject to the Oracle Cloud Enterprise Hosting and Delivery Policies, which may be viewed at www.oracle.com/contracts.

Project and Environment Usage Planning

A critical step in the project planning process is to develop a time phased environment usage plan that describes the implementation tasks and the environment where they will take place aligned with the overall project timeline. In general, the stage/test environment supports all stage/test activities. The sole purpose of production is to run your real day-to-day business operations and should not be used for stage/test activities.
Stage/Test Environment

A stage/test environment supports all stage/test activities for managing the Oracle ERP Cloud Service implementation lifecycle. This includes:

- Familiarization and prototyping through Functional Prototype Workshops (commonly referred to as Conference Room Pilots (CRP)).
- Development of extensions (reporting, pages, interfaces).
- End user acceptance testing of configurations and data loading prior to going live.
- Pre-upgrade validation (Oracle will notify customers of upgrades and allow customers time to test upgraded data in the stage/test environment prior to upgrading the production environment).

Initial configuration of the stage/test environment performed for early CRPs could be enhanced and reused for subsequent test cycle iterations during the Validate phase.

To isolate test data and ensure data integrity between various test cycles (such as proof of concept, integration, and user acceptance), you can configure additional enterprise structures on the stage/test environment. You can use Rapid Implementation spreadsheets as described in the Content Migration chapter in this document to help speed up the creation of additional enterprise structures.

**Implementation tip:** If you configure additional enterprise structures in the stage/test environment, it is important to recognize that it is not possible to filter setup data within the same tasks in Functional Setup Manager to export setup data and import setup data into another environment. This approach is feasible if the intent is to perform fresh setup in another Stage/Test environment later and/or export setup data for selected tasks only where there are no dependencies.

Once a stage/test configuration is signed off by the customer, it is migrated to the production environment either manually or using some of the migration content tools described in the chapter on Data Migration, Integration and Extensibility within this white paper.
The stage/test environment is typically refreshed from the production environment – for simplification referred to as Production-To-Test (P2T) copy – at selected project milestones, for instance right after completing validated configuration in the production environment. It is, however, not possible to request a Test-to-Production copy. Test-To-Test (T2T) copy service is also available when a customer requires synchronization across their multiple stage/test environments.

Additional Environments

Some customers subscribe to additional cloud environments due to the complexity of their operating environments. A couple of business cases are illustrated below where additional cloud environments may be required:

» A large, global implementation project with a phased roll out to different countries. Let’s say that the customer has gone live on Oracle ERP Cloud Service for their UK operations. A copy of the UK production environment to a stage/test environment is made available for regular maintenance. Meanwhile the customer’s global implementation team has an Oracle ERP Cloud Service implementation underway for its French operations, and thus an additional stage/test environment for the French operations design, configuration, validation, and transition phases of the project would be needed. Once the configuration and reference data for the French operations have been transitioned to the production environment, both the UK and French Operations will operate within a single instance in the production environment.

» A phased implementation project where the customer has gone live on Oracle ERP Cloud Service but there are plans to subsequently implement Oracle HCM Cloud Service. A copy of the Oracle ERP Cloud Service production environment to a stage/test environment is made available for regular maintenance. The Oracle HCM Cloud Service project is commenced using a separate stage/test environment for the design, configuration, validation and transition phases of the project. This approach ensures that you have a separate stage/test environment that is exactly like production for internal testing/support activities.

Subscription to additional environments is subject to extra fees. You can contact your Oracle account sales representative for further information on fees for additional environments.

Production Environment

A production environment is intended to support the ongoing management of your Oracle ERP Cloud Service applications in production for day-to-day real time business operations by authorized staff. Oracle ERP Cloud Service ensures that the production environment is maintained to the most current update levels (refer to section on Cloud Updates in this document), always providing notifications to customers in advance of any maintenance downtime as a result of Cloud updates. When a new release of the Oracle ERP Cloud Service software is available, Oracle Cloud Operations will work with the customer to schedule the upgrade of the production environment, and upgrades can take place multiple times in a calendar year.
Manage and Monitor Your Own Services

As a Service Administrator you have access to the Oracle Cloud My Services Portal, which provides a single access point for all your Oracle Cloud service lifecycle management needs. The portal is role-based and provides both business and operational details of your Oracle Cloud.

The Oracle Cloud My Services portal is the one place you will go to provision new services, manage existing resources in the cloud, and monitor the overall cloud instance performance. It provides information such as notifications with the ability to track service usage and important statistics. To login to the My Services Portal, use your Oracle Cloud user profile.

Cloud Updates

While planning an Oracle ERP Cloud Service implementation, you need to carefully consider Oracle’s regular cloud release updates and service lead times for Production-to-Test copies well in advance. Further details are available in the following documents on My Oracle Support website (support.oracle.com):

» Doc ID: 1966109.1 Oracle Applications Cloud —Applications Update Policy
» Doc ID: 1597086.1 Oracle Financials Cloud Functional Known Issues and Update Documents. New: Revenue Management Updates are included within the Oracle Financials Cloud Update Documents.
» Doc ID: 1554124.1 Oracle Procurement Cloud Functional Known Issues and Update Documents
» Doc ID: 1545504.1 Oracle Project Portfolio Management Cloud Functional Known Issues and Update Documents

By default, Oracle ERP Cloud Service customers are on a quarterly cloud update schedule where the quarterly updates are applied to the stage/test environment on the first Friday of the following months (February, May, August, and November) and applied to the production environment on the third Friday of the same month (except for the
Middle East where it is the respective Thursdays instead of Fridays). Full information is provided to cloud customers on the product updates provided in these cloud updates via system outage notifications announced ahead of time. It allows customers time (i.e. 2 weeks) to validate transaction processes and reports on the stage/test environment prior to the quarterly cloud updates being applied to the production environment.

As with any implementation there may arise the need to have more frequent updates during the implementation. **Monthly** updates are available upon request. System integrators need to be aware that a service request must be raised with Oracle Cloud Operations to request how the updates should be handled for the two environments at the start of implementation project and around go-live (once go-live date is set).

**Concurrent Updates**

If an Oracle ERP Cloud customer is not live and not in production, the Concurrent Update option (see also My Oracle Support Doc ID: [1646394.1](1646394.1)) provides additional flexibility in utilizing Oracle ERP Cloud environment services and minimizing environment downtime. Utilize Concurrent Updates to keep production and stage/test environments at the same update level.

If an Oracle ERP Cloud customer decides to go with Concurrent Updates:

» The outage for both environments will occur simultaneously every month since your production and stage/test environments are updated at the same time.

» Both production and stage/test environments remain at the same update level at all times.

» You’ll need to plan the Concurrent Update end date for the last day of the month prior to the go-live month. This also facilities a wider timeframe for Production-to-Test (P2T) copy to be executed.

**Note:** Oracle has to ensure all Oracle ERP Cloud Service customers have the latest code updates and functionality and that means that the cloud updates are mandatory. There is no option for Oracle ERP Cloud Service customers to opt-out of cloud updates.

**Upgrades**

Oracle ERP Cloud Service upgrades may take place multiple times in a calendar year so system integrators need to advise cloud customers to nominate a project manager or a team leader to set aside time and resources to prepare for each upgrade, research new features, plan for upgrade validation tasks, allowing time to test business processes and reporting after the stage/test environment upgrade and allowing time to validate data and reports after the production upgrade. Oracle Cloud Operations will communicate upgrade dates for the stage/test and production environments respectively. Customers can request changes to those dates, if needed.

Each new release of Oracle ERP Cloud software typically includes new features, however, an upgrade is a technical upgrade with like for like features, and it’s up to each customer to decide whether to configure new features as part of the upgrade testing and validation, or whether do configure new features at a later stage after the upgrade is complete. Upgrade testing should first focus on validating existing functionality before expanding to new functionality to be deployed.

**Implementation tip:** Generally most Oracle ERP Cloud Service customers want a recent a copy of the production environment prior to an upgrade, so ensure you advise the customer to raise a Service Request for a P2T several weeks in advance of a planned upgrade of the stage/test environment.
Key Implementation Considerations

Overall key considerations for any Oracle ERP Cloud Service

» Requirements Management
  » Gathering business requirements can be a lengthy process. Given that Oracle ERP Cloud service is a public cloud service, utilizing a traditional requirements-driven approach is not in the best interest of Oracle, Oracle Partners and most importantly, the customer.
  » Leading Practice: Utilize a solution-driven approach for gathering business requirements. A solution-driven approach will ensure that the customer is maximizing their value from the Oracle ERP cloud service. Leverage Oracle’s detailed business process models to quickly (a) identify scope, (b) business requirements, and (c) how the ERP Cloud Service supports the customer’s business processes.
    o Utilize the Detailed Business Models (see MOS Document ID 1542019.1) to better understand how a specific business process is supported. There are five levels (L1-L5) with each level providing a greater level of explanation. The business process model moves from a conceptual level (L1) to a specific business task level (L5) with the corresponding Oracle ERP Cloud Service functionality.
    o The Detailed Business Models can be used to identify the organizational change required to support the Oracle ERP Cloud service. This is performed by comparing the existing customer’s organizational roles/responsibilities to Oracle’s defined business process roles/responsibilities defined in the Business Process models.
  » Security – user roles & data access
    » A new data security model has been introduced in Release 10 for Oracle ERP Cloud.
      • In previous releases, users were assigned to specific data sets, such as business units, ledgers, warehouses, and so on via data roles that were automatically generated by data role templates.
      • In Release 10, new Oracle ERP Cloud customers will not use data role templates, instated users must be assigned directly to the job roles and to the appropriate data sets using the new Manage Data Access for Users page.
      • To access the Manage Data Access for Users page, navigate to Setup and Maintenance > Manage Data Access for Users task.
      • Leading Practice: Leverage the role simplification model - define and maintain as few roles as possible and have change control established. Custom roles can be introduced to grant access to all Business Units / Ledgers / etc. Instead of multiple data roles, user only needs to be assigned one role.
  » Data Migration, Integration and Extensibility
    » Consider how to migrate suppliers, customers, open transactions and balances as well as historical data. For projects you will have to consider how to migrate project, plan, budget, forecast, contract, billing and revenue transactions as well as historical data. The next chapter in this white paper goes into more detail on Data Migration, Integration and Extensibility.
    » Data validation is a critical task in data migration. Given the importance, Oracle has provided the following guidance to support your implementation (Doc Id 2084189.1) “How to Verify Data Conversion Results”.
    » Given that Oracle’s ERR Cloud service is a “public” Cloud service; customers generally convert between 2-5 years of data depending on their use cases and regulatory requirements. If additional space is required then speak with your Oracle Success Management partner to confirm that the appropriate sizing requirements have been communicated to Oracle.
    » Leading practice is to take a risk-adverse, iterative data conversion approach to ensure proactive management of potential data issues.

Implementation Tip: The implementation should have at least 3 data conversions (initial Stage/test, full in Stage/test environment, full in Production environment).
System requirements

- Ensure the implementation team is made aware of the system requirements for supported browser versions and optimum screen resolutions to ensure as smooth a user experience as possible.
  - Refer to the "System Requirements for Oracle Applications Cloud" site for additional information.

Configuration Leading Practices

- Oracle has developed a new functional configuration Leading practices guide for Oracle partners and customers to utilize during their ERP cloud implementation. Refer to Oracle ERP Cloud Guided Path and Configuration Leading Practices (Doc ID 2226879.1).

- How to best leverage the worksheets (Guided Path, Best Configuration Practices)?
  - Knowledge Guided Path: Highlights key Oracle resources/Leading practices in the context of the Oracle Cloud Services Lifecycle. Majority of resources will require access to My Oracle Support (MOS). Guided Path can be used as a checklist to ensure that the project team is leveraging available resources effectively. There are several resources specifically defined for troubleshooting and configuration validation.
  - Best Configuration Practices: Practices are by Module, Component (Setup, Feature), and Type (Configuration, Caution, Validation, Performance, Data Conversion, etc). The Best Configuration Practices can be a handy reference during configuration design sessions. A Leading practice includes reviewing the best configuration practices against agreed upon configuration decisions.

Implementation Tip: Execute Enterprise Structures Setup Report before conducting the Proof of Concept to validate configuration setup.

Testing

- Testing is the key validation activity that confirms service configuration, integrations, business workflows and data migration are complete and successful. Testing also confirms that the customer’s organization has adapted to the new solution.
  - Leading Practice: Simulate a month end close as part of your Testing. This will be useful when submitting the resizing request for your Production environment.
  - Keep your test scripts to reuse as needed to validate periodic ERP Cloud Service updates.

Note: At this time Oracle ERP Cloud Service does not provide automation tools/services for test scripts.

Prepare for go-live and subsequent on-going maintenance

- Review the 'ERP Cloud Service Checklist' available on My Oracle Support in Doc ID 1995621.1. This checklist document has been created as guidance in preparation for go-live and for on-going Oracle ERP Cloud activities the customer must take into account subsequent to the go-live.

Implementation tip: Use Rapid Implementation Spreadsheets and File Based Data Import files to track the master configuration and master content to be loaded into your production environment, and keep the master configuration and content up-to-date as a result of your prior test cycles.

Shared Support Model

- Oracle ERP Cloud service utilizes a shared support model across Oracle Support and the customer's ERP support team.
  - Understanding and embracing Oracle’s Cloud Support model is a key success metric for any implementation. It is the key communication vehicle for Cloud implementation issues that require Oracle assistance.
Leading Practice: The project team needs to decide who will log service requests, who will manage service requests, and who will escalate service requests. Confirmation of system access to complete these tasks is also required.

Set up a level 1 helpdesk that includes business and IT analyst(s) that can provide support to the users. The selected business and IT analyst(s) should receive Oracle training on the Cloud applications implemented and should obtain knowledge transfer from the SI on the system design and configuration options implemented.

My Oracle Support’s website provides extensive knowledge management content with the ‘Oracle Applications Cloud – Your Soft Landing in the Cloud’ page (Doc ID 110.2) and more specifically also an Oracle ERP Cloud Landing Page (Doc ID 1982039.2). You can get up to speed with what’s new and changed for the latest release, including the new infolets, information tiles with actionable information, as well as specifics on how to implement these new or changed features via the Oracle ERP Release Readiness white papers available [here](#).
Key considerations specific to Oracle Financials Cloud Service

» Enterprise Structures
  » Enterprise structures provide a framework for developing and managing your chart of accounts, ledgers, legal entities, and business units to meet your accounting and reporting requirements. Following are the key enterprise structures to consider as part of your implementation.
    o Enterprise (Group)
    o Legal Entities (Companies)
    o Ledgers (Books)
    o Business Units
    o Departments

Implementation Tips: Utilize the seeded value of “Enterprise” for the enterprise structure. Each registered company (with its own tax ID) should be defined as a legal entity in Fusion. Each legal entity is accounted for in only one ledger, but one ledger can serve multiple legal entities.
Chart of Accounts

» Identify the real legal entities, management entities and business divisions/operations and map these to enterprise structures in Oracle ERP Cloud Service e.g., Ledger Sets, Ledgers, Legal Entities, Business Units and so forth.

» Identify transaction processing, tax and reporting requirements to enable you to design the Chart of Accounts optimally for the business. Oracle has produced a white paper which discusses enterprise structures and chart of account designs and more. It is called ‘Oracle ERP Cloud Service Introduction for CFOs and System Integrators’.

» Decide on how many account hierarchies will be needed for the purpose of accounting and reporting, as you can define multiple versions of account hierarchies to support varied business needs. You can benefit from reviewing the white paper on My Oracle Support, Doc ID 1520970.1 ‘Oracle General Ledger Hierarchies: Recommendations and Leading Practices’ prior to commencing the implementation.

» Consider whether Account Alias configuration will help ease journal entry and transaction processing for the data entry staff, and enable the Shorthand Alias check box in the Manage Shorthand Aliases within Functional Setup Manager.

**Implementation Tips:** Define one Chart of Accounts for the entire enterprise. This approach will ensure report consistency and streamline consolidations. It is strongly recommended you use the Data Type of “Character” and Subtype of “Text”. This allows for better flexibility in extending your chart of accounts to use both characters and numbers.
External, management, and local reporting requirements

Financial Reporting Center brings together report output across all Oracle Financials Cloud applications into a single, central location for customers to access. You can easily retrieve the output for reports you access most often, add reports to your Favorites so that you can easily find them, and browse through a list of all reports to which you have access.

![Financial Reporting Center Dashboard Example](image)

In figure 10 below you can identify each report type through unique icons displayed in the Financial Reporting Center.

![Unique icons for each report type](image)
Decide which reporting tools would be appropriate for varied reporting needs. Ensure that you identify power business users who will be responsible for each of the reporting tools, to ensure key reports are defined and reporting procedures are documented for other users who need access to the relevant reporting tools.

Different reporting tools serve different purposes, as outlined below:

- **Financial Reporting Studio Reports** provide board room quality financial statements and departmental reports, which can be viewed in the user’s preferred format – HTML, PDF, or MS Office. CFOs can export financial statements to MS Office products, such as PowerPoint, Excel or Word, and refresh the results within those desktop applications with a single click.

- **Smart View** is an Excel plug-in that allows your financial users to perform ad hoc multi-dimensional analysis on general ledger balances.

- **Self-service reports** enable you to analyze and investigate account balances. For instance, Sunburst enables you to pivot data for ease of analysis. Account groups are easy-to-use reporting components that save queries on account balances that require regular monitoring. The results of the account group balances inquiry are displayed in the Account Monitor in the General Accounting Dashboard. The account groups can also be displayed on Revenue, Expenses or Allocations infolets. Account Groups and Sunburst reporting are available on any device: both desktop web browser and tablet optimized reporting with the Mobile Financial Reporting Center.

- **Oracle Transactional Business Intelligence (OTBI) for Financials** provides the ability to build custom queries on transactional data, and the output can be downloaded to Microsoft Excel.

- **BI Publisher (BI P)** delivers out-of-the-box reports, which can handle high transaction volumes. BI Publisher reports can be configured to extract the data in Rich Text Format, Adobe PDF, Microsoft Excel or XML. BI Publisher gives control to power business users who can develop skills to use BI P template builder as an add-in to MS Word to create custom Payment formats such as checks to suppliers and Receivable invoices / remittances. Its bursting engine can also take a batch of data, splitting the data into individual documents and then delivering them to multiple recipients in various formats.

- You can find more information about the OTBI and BI Publisher reports available for Oracle Financials Cloud [here](#).

![Figure 11. Oracle ERP Cloud Reporting Tools Overview](#)

**Financial Roles and Data Access**

- Identify the project roles for the business and the data access required for each role. For an overview of the seeded roles and privileges, refer to the [Oracle Financials Cloud Security Reference](#).

**Shared Service Center Processing**
» Oracle ERP Cloud Service allows a single payment business unit to process payments for invoices of multiple business units. The same principle applies to customer receipt processing. In addition, for Payables invoices, you can perform cross currency payments so that you can pay invoices in any currency, irrespective of the currency on an invoice. Therefore you need to establish if such capabilities are needed.

» Automated Invoice Processing

» Obtain the designated e-mail accounts for both stage/test and production cloud environments before scanning or emailing the invoices to Oracle ERP Cloud Service (refer to chapter on Accessing Environments). In order to get the best recognition result, make sure the scanner is setup properly and the addresses of suppliers are setup correctly in the application. Before implementing, it is highly recommended you read the ‘Oracle Integrated Invoice Imaging Guide’ available on My Oracle Support in Doc ID: 1966280.1.

» Expenses Imaging

» Customers subscribing to Oracle Expenses Cloud Service - Hosted Expense Report, who are planning to use the Expense Imaging feature will need to log a Service Request early in the project (2-4 weeks before needed) to enable this feature. Oracle support will provide customers with the Expense email addresses they will need to start using this functionality.

» Approvals

» There may be approval requirements that must be addressed for General Ledger Journal Approvals and Accounts Payable Invoice Approvals in order to comply with internal or external controls, so it’s important that you identify and document these requirements at the start of the project. This will enable you to map business requirements to configuration required in Oracle ERP Cloud Service. My Oracle Support provides guidance in respect of approvals configuration with Doc ID 1338489.1 ‘Overview of Journal Approval in General Ledger’ and Doc ID 1342689.1 ‘Accounts Payables - Invoice Approval Process’.

» Centralized configuration for speedy setup

» Functional Setup Manager (FSM) in Oracle ERP Cloud Service provides implementers with a self-service portal that is used to identify the setup tasks you need based on your project scope, assign tasks by business user, and collaborate on the team’s progress through the use of notes and status. Included within FSM is a subset of tasks focused on ‘Rapid Implementation.’ The Rapid Implementation tasks include the recommended minimum setup requirement.

» When initiating your implementation project, you can directly add and display the list of Rapid Implementation tasks. All the tasks are ordered in their correct sequence.

- To quickly add the Rapid Implementation task list to your implementation project, navigate to the Setup and Maintenance work area.
- Click the Implementation Projects button.
- Click the Create icon and enter the basic project information.
- Click the Save and Open Project button.
- Click the Select and Add icon in the Task Lists and Tasks table.
- Search for the Task List called Define Financials Configuration for Rapid Implementation, select it, then click the Done button.

» Some tasks include spreadsheet templates that can be used to quickly upload key setup such as enterprise structure and chart of account values. Therefore assess the available rapid implementation spreadsheets to identify where you can save manual data entry effort to expedite the configuration process. You can identify the spreadsheet templates by searching on ‘spreadsheet’ within the Task field in the Functional Setup Manager.

**Implementation Tip:** You should run diagnostic tests to perform a health check and data validation on the enterprise structures setup data. For additional information on available configuration validation reports, please refer to the follow MOS article (Doc ID: 1338511.1 - What Diagnostic Tests Are Available For Fusion Financials.)
Key considerations specific to Oracle Revenue Management Cloud Service

» Identify the current footprint in terms of your client’s existing ledgers used for corporate reporting and national statutory reporting respectively.

» Discuss and understand your client’s decision on retrospective adoption of ASC 606 / IFRS 15 e.g. restatement or disclosure. To support the retrospective adoption approaches your client can chose to:
  » (1) continue using their deferred revenue systems through cut-over day in the Corporate ledger as required by ASC 605 / IAS 18;
  » (2) execute their ASC 606 / IFRS 15 GRC validation through iterative modeling in an additional Secondary Ledger.
  » (3) assemble their ASC 606 / IFRS 15 Adoption Opening Retrospective Sub ledger Balances in that ASC 606 /IFRS 15 Adoption additional secondary Ledger.
  » (4) Use Oracle’s cut-over utility to point the new ASC 606 / IFRS 15 fully populated sub ledger to the original Corporate ledger, and turn off the deferred revenue systems for that ledger.
  » (5) If you need deferred revenue after the cut over date, use your existing systems and Subledger Accounting to populate a non-Corporate ledger.

» Be sure to get an ASC 606 / IFRS 15 (not an ASC 605 / IAS 18) articulation of your client’s main revenue use cases that they have validated with an accounting advisor, tabulate them in “review at inception” mode (a phrase from the standard) and analyze that table in terms of the data needed to identify and process them.
  » Ensure that your client with every use case documents inception-, billing-, and satisfaction event (revenue) triggers, standalone selling or estimated selling prices and the related pricing policies, contract revisions, and the expected accounting entries throughout the life cycle of the accounting contract.
  » When you have obtained the use case data, set the product up in a Cloud pod reflecting the client’s standard business environment (customers, items, accounting, enterprise structure etc.).
  » Then create a first draft set of rules in Revenue Management to automatically identify and create accounting contracts and performance obligations and to account for contract liabilities, contract assets, and revenue.
  » Import the oldest relevant data (typically on a period by period basis such as January 2016, February 2016 etc), test the rules, and review the results in an Enterprise Performance Tool (EPM) such as Oracle Planning and Budgeting Cloud, or Oracle Hyperion Essbase. If your client doesn’t like the results, discard the contracts, revise the rules, and try again. Save each iteration in EPM. When the results are validated by your client as giving the appropriate outcome, save the results in EPM, and book the transaction output in the additional secondary ledger, and import more source data for subsequent periods.

» Your client can use the EPM data to plan and budget next year’s revenue, to validate your Governance, Risk and Compliance around the new standard, and perhaps, in the client’s external reporting.

» The data which is posting to the additional secondary ledger will support a revised “retrospective” opening balance sheet on cut-over day. It will become subledger data to your regular ledger on that date. Oracle provides a cutover utility that will support your adoption journal entry, and replace the old-rules deferred revenue processes you will stop using.

For additional information on Revenue Management, utilize the Release 12 Readiness portal at the Oracle Cloud website.
Key considerations specific to Oracle Project Portfolio Management Cloud Service

**Organizational Design**

» From a financial perspective identify and map the requirement for accounting, reporting, planning, cost collection and revenue generation functions to the appropriate Business Unit, Project Unit, Project Owning Organization and Expenditure Organization. This key consideration should be reviewed alongside the Financials Chart of Accounts design.

» A project unit defines a set of rules and options for creating and managing the nonfinancial aspects of projects, such as project definition, scheduling, and reporting. You can define one or more project units based on how granular you want to separate processing options, reference data, security, and other controls. The list of project units can be different and independent from the list of business units that perform your enterprise financials functions, such as payables and receivables.

![Diagram of Project Business Unit to Financial Business Unit alignment](image)

**Implementation Tip:** If a business unit isn't associated with any project unit, then the business unit is valid for all project units.

**Centralized configuration for speedy setup**

» The rapid implementation feature enables you to:

- Define the most important attributes that are required to set up the Project Financial Management offering. Use the ProjectDataUpload.xlsm spreadsheet which has worksheets for key business objects.
- The worksheets contain the most important attributes you must define. Additional attributes are automatically populated during the upload process.
- Implement the Leading practices as default setup options. Use setup values based on common Leading practices. You can disable any value that isn't applicable to your organization.
- Set up project organizations without hierarchies for simple organization structures
» For additional information on utilizing rapid implementation templates for Project Financial Management, navigate to the Rapid Implementation of Project Financial Management Applications in the Oracle Help Center.

» Project Roles and Data Access
   » Identify the project roles for the business and the data access required for each role. For an overview of the seeded roles and privileges, review the chapter “Implementing Security in Oracle Fusion Project Portfolio Management” at the docs.oracle.com site.

» Project Accounting Calendars
   » Determine the calendar periods that each business unit requires for planning and reporting. Will the General Ledger calendar meet the requirements or is a more granular (weekly) time interval required. Ensure that any calendar created can accommodate any converted data.

» Reporting Requirements
   » Depending on how the organization wishes to track and report on project based work consideration should be given to how best to utilize Service Types, Work Types, Project Classifications and Descriptive Flexfields to manage data.
   » You can find more information about the OBIA, OTBI, and BI Publisher reports available for Oracle Project Portfolio Management Cloud here.

» Project Planning Requirements
   » Planning Resource Breakdown Structure is a hierarchical list of resources related by function and resource type that is used to facilitate planning, controlling and reporting on project based work. Decide how resource elements, inventory items (if applicable) and resource classes are to be structured to meet the organizational project planning needs.

» Approvals
   » As a project moves through its lifecycle there may be approval requirements enabling stronger project management and financial management control. Determine which project statuses require approvals and if budgets and forecasts additionally require approvals.

Key considerations specific to Oracle Procurement Cloud Service

» Shared Services or Individual Procurement organizations
   » Oracle Procurement Cloud provides new flexibility to deliver shared services for procurement. Designed around the ability to create purchasing centers of excellence, procurement activities can be executed across business units, within business units or with a hybrid approach. You will need to understand the organizational structures and desired procurement processes in order to define the right service provider relationships and assign the appropriate business function to each Business Unit. The article in My Oracle Support Doc ID 1327247.1 called ‘How Are Oracle Procurement Business Units Different To E-Business Suite Operating Units’ explains the business unit structure in Oracle Procurement Cloud.

» Reporting requirements
   » Depending on how the organization wishes to track and report on purchasing spend, consideration should be given to how best to utilize Purchasing Categories and Descriptive Flexfields.
   » You can find more information about the OTBI, and BI Publisher reports available for Oracle Procurement Cloud here.

» Transaction Accounting
   » Some businesses would like to automate the derivation of charge accounts on transactions based upon their corporate policies. Transaction Account Builder (TAB) provides a flexible mechanism to derive accounting for procurement transactions. TAB is the component of Subledger Accounting which is solely responsible for building or defaulting the accounts on a transaction such that appropriate accounting entries can be created against such transaction accounts. Work with your financials counterpart to manage transaction accounting and building TAB rules. Refer to the “Define Transaction Accounting for Procurement” section in the Oracle Procurement Cloud Implementing Procurement guide.
Self Service Procurement Catalog Considerations

Keeping catalog management simple is a priority for cloud customers. In many cases description based agreement ordering is going to meet the requirements and setting up items may not be needed. However, a complete purchasing category structure is required to deliver a complete search and browse experience. Understanding the requirement for the catalog before defining the structure will save time and reduce the ongoing maintenance complexity for Self Service Procurement catalog management.

Approvals

Approvals play a critical role in the procurement processes. There can be approvals for Requisitions, Agreements, Purchase Orders, Change Orders, Contracts, and Negotiations. Each of these document types will have unique workflow requirements. Oracle Procurement Cloud Service delivers a unified, rules based workflow engine that drives approvals and notifications. For an overview of approvals in Procurement see: ‘Define Approval Management for Procurement’ in the Oracle Procurement Cloud Implementation Procurement guide.

Centralized configuration for speedy setup

Functional Setup Manager (FSM) in Oracle ERP Cloud Service includes Rapid Implementation options. You can use the ‘Define Procurement Configuration for Rapid Implementation’ to identify the recommended minimum setup requirement. You can learn more about Procurement Cloud Rapid Implementation via the Help Center (link).

Data Migration, Integration and Extensibility

Inbound Integration

Oracle ERP Cloud Service provides three primary methods for inbound integration of data:

- Application Development Framework (ADF) Desktop Integration (ADFdi)
- ADF Services (commonly referred to as Web Services)
- File Based Data Import (FBDI)

ADF Desktop Integration

ADF Desktop Integration (ADFdi) provides desktop integration with Microsoft Excel spreadsheets for the purpose of importing small to medium volumes of data into Oracle ERP Cloud Service typically as part of day to day management (instead of initial data migration). ADFdi requires applications user login to ensure data is securely accessed and provides great interactive capabilities with list of values for many fields and online validation of data in the worksheet upon upload. Data obtained from another environment can be copied and pasted into the ADFdi template provided that the data is consistent and dependencies, if any, are met.

Table 1 below represents a sample list of supported ADFdi objects for Oracle ERP Cloud Service.

<table>
<thead>
<tr>
<th>Financials</th>
<th>Project Portfolio Management</th>
<th>Procurement</th>
<th>Revenue Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Additions</td>
<td>Create Asset Additions</td>
<td>Manage Supplier Content Map Sets: Category Mapping</td>
<td>Create Standalone Selling Prices</td>
</tr>
<tr>
<td>Budgets</td>
<td>Create Project Requirements in Excel</td>
<td>Manage Supplier Content Map Sets: UOM Mapping</td>
<td>Manage Standalone Selling Prices</td>
</tr>
<tr>
<td>Cash Receipts</td>
<td>Costed or Accounted Expenditure Transactions for</td>
<td>Manage Supplier Content Map Sets:</td>
<td>Correct Contract Document Errors</td>
</tr>
</tbody>
</table>

Table 1: Examples of ADF Desktop Integrations for Oracle ERP Cloud Services
<table>
<thead>
<tr>
<th>Financials and Remittance</th>
<th>Project Portfolio Management</th>
<th>Procurement</th>
<th>Revenue Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create Subledger Adjustment Journals</td>
<td>Manage Budget/Forecast: Edit Version in Excel</td>
<td>Manage Supplier Content Map Sets: Supplier Site Mapping</td>
<td></td>
</tr>
<tr>
<td>Currency Conversion Rates</td>
<td>Uncosted Labor Transactions for Third-Party Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expense Report Entry</td>
<td>Uncosted Nonlabor Transactions for Third-Party Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intercompany transactions</td>
<td>Journals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receivables Auto Invoice Error Correction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receivables Lockbox Error Correction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplier Invoices</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A practical implementation example of when you could use ADFdi is when you need to load currency conversion rates on a regular basis to use for subsequent transaction processing.

**Implementation tip:** Load your budgets into General Ledger with ADFdi instead of File Based Data Import because ADFdi will validate your budget accounts, periods, and more, immediately upon upload and highlight any errors for you to correct in your budget upload.

**SOAP Web Services**

Oracle ERP Cloud Service uses Oracle’s ADF Business Components to create its Simple Object Access Protocol (SOAP) web services. A web service is a method of communication between two electronic devices over a network without any user intervention once fully configured.

Starting with Oracle Applications Cloud Release 11 the website ‘docs.oracle.com’ provides you with information about existing SOAP web Services, which you can find through the following navigation:

Go to the website: docs.oracle.com

» Select ‘Cloud’

» Select the ‘Applications’ tab

» Select ‘Financials’ (or Procurement, or Project Portfolio Management)

» Select ‘Books’ on the left hand side of the screen, and review results on the site and scroll down to ‘Development’

» Select ‘SOAP Web Services for Oracle Financials Cloud’ (or Oracle Procurement Cloud, or Oracle PPM Cloud)
» Select ‘Business Object Services’ to review the available SOAP web services.

Table 2 below represents a sample list of supported ADF service objects for Oracle ERP Cloud Service.

**TABLE 2: EXAMPLES OF ADF SERVICES FOR ORACLE ERP CLOUD SERVICES**

<table>
<thead>
<tr>
<th>Financials</th>
<th>Project Portfolio Management</th>
<th>Procurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expense Item and Expense Report</td>
<td>Award</td>
<td>Purchase Agreement</td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>Contract</td>
<td>Purchase Change Order</td>
</tr>
<tr>
<td>Intercompany Transaction</td>
<td>Project</td>
<td>Purchase Order</td>
</tr>
<tr>
<td>Journal</td>
<td>Project Billing Event Update</td>
<td>Purchase Request</td>
</tr>
<tr>
<td>Payables Invoice Creation</td>
<td>Project Enterprise Resource</td>
<td>Supplier Negotiation</td>
</tr>
<tr>
<td>Payables Invoice Management</td>
<td>Project Issue</td>
<td>Supplier Negotiation Award</td>
</tr>
<tr>
<td>(including Invoice Image URL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receivables Invoice Service</td>
<td>Project Pricing Service</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project Resource Request</td>
<td></td>
</tr>
</tbody>
</table>

A practical implementation example of when you could use an ADF service is when you need to automatically create invoices in Oracle Receivables Cloud from an upstream order capture system.

**File Based Data Import**

Oracle File Based Data Import (FBDI) is used when there is a need for *high volume data uploads* to Oracle ERP Cloud Service. It is used for both legacy data migration as well as daily or regular import of data.

Starting with Oracle Applications Cloud Release 11 the website ‘[docs.oracle.com](http://docs.oracle.com)’ provides you with information about existing File Based Data Imports, which you can find through the following navigation:

Go to the website: docs.oracle.com

» Select ‘Cloud’

» Select the ‘Applications’ tab

» Select ‘Financials’ (or Procurement, or Project Portfolio Management) under the Enterprise Resource Planning section

» Select ‘Books’ on the left hand side of the screen, and review results on the site and scroll down to the ‘Development’ section
Select ‘File Based Data Import for Oracle Financials Cloud’ (or Oracle Procurement Cloud, or Oracle PPM Cloud)

Select ‘File Based Data Imports’ to review the available file-based data imports to load data into your Oracle Financials Cloud (or Oracle Procurement Cloud, or Oracle PPM Cloud) applications from external sources.

Table 3 below represents a sample list of supported File Based Data Import objects for Oracle ERP Cloud Service.

**TABLE 3: EXAMPLES OF FILE BASED DATA IMPORT OBJECTS FOR ORACLE ERP CLOUD SERVICES**

<table>
<thead>
<tr>
<th>Financials</th>
<th>Project Portfolio Management</th>
<th>Procurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Management External Transactions Import</td>
<td>Award Import</td>
<td>Blanket Purchase Agreements Import</td>
</tr>
<tr>
<td>Budget Balances</td>
<td>Billing Events</td>
<td>Contract Purchase Agreements Import</td>
</tr>
<tr>
<td>Customers</td>
<td>Contract</td>
<td>Import Supplier Site Assignments</td>
</tr>
<tr>
<td>Customer Invoices</td>
<td>Forecasts</td>
<td>Purchase Orders Import</td>
</tr>
<tr>
<td>Customer Receipts</td>
<td>Project Budgets Import</td>
<td>Requisitions Import</td>
</tr>
<tr>
<td>Intercompany Transactions</td>
<td>Project Enterprise Expense Type Resources Import</td>
<td>Supplier Addresses Import (and Update)</td>
</tr>
<tr>
<td>Journals</td>
<td>Project Enterprise Resources Import</td>
<td>Supplier Business Classifications Import (and Update and Delete)</td>
</tr>
<tr>
<td>Mass Fixed Asset Financial Transactions</td>
<td>Project Import</td>
<td>Supplier Contacts Import (and Update and Delete)</td>
</tr>
<tr>
<td>Mass Additions of Fixed Assets</td>
<td>Project Plan Import</td>
<td>Supplier Product and Services Categories Import</td>
</tr>
<tr>
<td>Mass Retirements of Fixed Assets</td>
<td>Project Resource Requests Import</td>
<td>Supplier Sites Import (including mass update to existing supplier sites)</td>
</tr>
<tr>
<td>Mass Transfers of Fixed Assets</td>
<td>Project Tasks Import</td>
<td>Supplier Import</td>
</tr>
<tr>
<td>Suppliers</td>
<td>Project Transaction Controls Import</td>
<td></td>
</tr>
<tr>
<td>Supplier Bank Accounts</td>
<td>Project Unprocessed:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Expense Report Expenditure Item Import</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Inventory Expenditure Item Import Template</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Labor Expenditure Item Import</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Miscellaneous Expenditure Item Import</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Nonlabor Expenditure Item Import</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Supplier Invoice Expenditure Item Import</td>
<td></td>
</tr>
<tr>
<td>Supplier Invoices</td>
<td>Resource Actual Hours Import</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resource Assignments</td>
</tr>
</tbody>
</table>

Some practical examples where you would use FBDI for high volume upload on a daily or regular basis are:

» Customers

» Customer invoices
For more details on how to use these integration tools, refer to the white paper on Oracle ERP Cloud Service Integrations on My Oracle Support, Doc ID 1990910.1.

Outbound Integration
Reporting Tools
Reporting tools can be used to extract data from Oracle ERP Cloud Service for further analysis. The extracted data can be imported data into external systems via XML, Excel or other file types.

Oracle Transactional Business Intelligence (OTBI) Reporting can be used to extract data for import into your external systems. Oracle Transactional Business Intelligence provides the ability to build custom queries on transactional data, and the output can be downloaded to Excel.

BI Publisher (BI P) delivers out-of-the-box reports, which can handle high transaction volumes and can be exported as CSV files for import into external systems.

The Oracle Customer Connect Community provides a BI Publisher Learning Center, which provides training on how to create a report, customize a report, and extensibility using online layout editor.

Here is a simple example on how a BI P report can be created and exported from Oracle ERP Cloud and then subsequently imported into the target instance:

In Oracle ERP Cloud:
Create a Data Model in BI.
1. Create a Report for the Data Model.
3. Schedule the report to run at particular intervals. Have it run as CSV output. Schedule it to a folder on Fusion's SFTP Server /Universal Content Management (UCM) Server.

In Target System:
1. Write a script to connect to SFTP/UCM Server. Connect on a periodic basis.
2. Download CSV file.
3. Use SQLLOADER to import into target system database.

For detailed instructions, please refer to the article on Using External Data Integration Services for Oracle Cloud available on My Oracle Support, Doc ID 2102800.1.
Implementation tip: BI Publisher is the recommended reporting tool for outbound integration as it can handle high transaction volumes and the report formats can be saved as .csv files. To ensure good report performance, it is advisable to use only seeded BI Publisher XML extracts which come with seeded report templates to create new report templates. Ensure you confirm performance and load balancing on the BI server on the stage/test environment before migrating the reports to the production environment.

Content Migration
Oracle ERP Cloud Service provides a number of ways to migrate content between cloud environments as illustrated in table 1 below.

**TABLE 4: CONTENT MIGRATION OPTIONS**

<table>
<thead>
<tr>
<th>Configuration Type</th>
<th>Tool</th>
<th>Content Migration Support</th>
</tr>
</thead>
</table>
| Functional Setup   | Functional Setup Manager | Functional Setup Manager (FSM) Configuration Package export/import migrates all setup for a Logical Business Object (LBO)  
Scope (FSM concept): allows row-level migration but is enabled only for a few Financials LBO’s  
Scope enabled Financials LBOs currently include: Business Unit, Ledger, and Subledger Application  
It is worth noting that consideration should be given to unwanted data in Test when using FSM to migrate some setup data to Production. An option is to simply end date (1/1/1900) the setup, where feasible, to ensure it is not active in the production environment.  
See My Oracle Support Doc ID: 2125389.1 - Utilize Functional Setup Manager to migrate Oracle ERP Cloud Reference Data |
| Functional Setup   | Rapid Implementation Spreadsheets | Rapid Implementation  
Rapid implementation spreadsheet templates are available for download from the Financials Configuration for Rapid Implementation task list in the Oracle Functional Setup Manager. You can identify the spreadsheet templates by searching on ’spreadsheet’ within ‘All Task’ tab in the Functional Setup Manager.  
You can use the Rapid Implementation spreadsheets to create segment values and hierarchies. You can also set up multiple ledgers and hierarchies. Rapid Implementation spreadsheets will automatically create a primary ledger for each country in which a legal entity is registered. Additionally, you can create multiple hierarchies for any chart of accounts segment, either during initial setup or at any later point in time.  
Examples of rapid implementation spreadsheets are:  
» Create Chart of Accounts, Ledgers, Legal Entities and Business Units  
» Create Cross-Validation Rules  
» Create Account Combinations in Bulk  
» Create Segment Value Security Rules  
» Create Sequencing Configuration  
» Create Banks, Branches and Accounts  
» Create Fixed Assets Configuration |
| Data Extensions     | Flexfields / FSM | Functional Setup Manager (FSM) Configuration Package export / import  
See My Oracle Support Doc ID: 1510288.1 - Guidance for |
Configuration Type | Tool | Content Migration Support
--- | --- | ---
Reporting / Business Intelligence | OTBI, BIP, FR Studio | Managing Customizations in Oracle Cloud Application Services: Flexfield Migration

Oracle ERP Cloud Service maintains a Production-to-Test (P2T) content migration service which overlays your stage/test environment with a copy of the configurations and data from your production environment.

The primary aim of a P2T content migration is to refresh the stage/test environment with production data after you have gone into production with one or more Oracle Cloud Applications.

You can also request a P2T refresh to be executed by Oracle Cloud Operations prior to going into production to support a refresh of the stage/test environment when it is being repurposed. For example, you might prepare the environment for pre-production configuration after the environment was previously used for a conference room pilot.

If your project has more than one stage/test instance, the P2T migration tool may also be used to perform a stage/test to stage/test environment refresh.

**Implementation tip:** You need to plan ahead when scheduling a P2T refresh to avoid delaying your implementation. Request your P2T refresh via My Services portal to schedule P2T (rather than logging an SR) because the portal shows the blackout dates and only lets you schedule a P2T at a valid time. Please ensure that you allow a three (3) week lead time in requesting a P2T. In order for a P2T content migration process to work correctly, the production and stage/test environment must be at the same cloud update level. The process requires no downtime for your production environment but your stage/test environment will be down for 24-48 hours. Once the P2T is complete there is one manual step you have to execute, and that is to submit the ‘Create Cube’ report program to rebuild the Essbase Balances Cube in the stage/test environment. It is recommended that you submit the ‘Create Cube’ report program during non-business hours to minimize possible performance impact.

Extensibility

The following Oracle Cloud Applications extensibility capabilities are available as part of Oracle ERP Cloud Service:

**Infolets** can be configured to include OTBI reports, for instance to show key performance indicators important to you specific business. You can drag and drop objects in an infolet to be displayed in your preferred order. Custom components such as text, images, and URL links can be added to an infolet.
Page Composer enables you to change selected user interfaces to suit your needs. For example, you can rearrange certain objects on a dashboard, add and remove designated content, and save queries.

Flexfields enable you to configure your applications to capture additional pieces of information (attributes) without having to perform custom development. The attributes that you add by configuring flexfields are available throughout the Oracle Fusion Middleware technology stack, allowing custom attributes to be used in user interface pages, incorporated into the service-oriented architecture (SOA) infrastructure, and, in the case of descriptive flexfields, integrated with Oracle Business Intelligence. For more information about flexfields, see the Oracle® Fusion Applications Extensibility Guide, Chapter 5, Using Flexfields for Custom Attributes.

Post Implementation Leading Practices

Implementation is just the first step in realizing the business value that Oracle ERP Cloud service provides. As part of your Go-Live activities the following are post implementation leading practices that will create a lasting positive experience.

Implement a Shared Support Model

- The goal is to ensure that a fully qualified issue gets quickly documented, routed efficiently to the right resource for triage, forwarded to an expert, if required, to provide a solution, the information and status provided back to the user and the issue formally closed. The support structure typically involves a front-line support team of super users and subject matter experts that work directly with the end-users. They are then supported by solution functional and technical experts from either the customer and/or partner teams. If these two layers of support cannot resolve the issue, then that 2nd level team should turn to Oracle Support for assistance via the standard Service Request (SR) process via the My Oracle Support portal.

Documentation

- A formal Instance Management Plan should be authored and maintained in order to keep various activities documented to avoid conflicts. This plan should be created during the deployment and continue to be maintained after Go-Live as a living document. The activities included within this document are key project testing events, configuration completion milestones, external integration environments that are linked to each pod, P2T or T2T refresh events, scheduled update bundle maintenance dates, scheduled upgrade maintenance dates, pod names, application versions, languages installed, pod URLs, associated PaaS environments, etc.
- Validate documentation on configuration decisions, reporting, interfaces, ESS jobs and extensions (customer self sufficiency).
- Keep a pristine copy of your production functional configurations in the FSM configuration templates.

Performance Monitoring

- Establish Performance Baseline Metric (manual) in Production & Test (provides a point of reference to analyze if performance degrades)
- Proactively review all IT infrastructure, Firewall, IT browser and IT carrier changes to determine potential impact to connecting with Oracle ERP Cloud service.

Continuous Training

- Register key IT and business users on Application Customer Connection. Dedicate one user to establish watches on content update and forward as needed to other stakeholders.
- Partner with your Customer Success Manager CSM to identify outstanding training gaps.

Cloud Notifications

- A Leading practice that has worked for many customers is to establish a distribution list by the internal email administrator and the customer’s ERP staff and system integrators are subscribed to that distribution list. The
Service Administrator can then add that distribution list as a notification user of the Oracle ERP Cloud Service. The people receiving the system availability notifications need not be service administrators.

User Experience/Security

» Sample check user’s browser settings to ensure optimal performance.

» User Security Operations – As you continue to run your business on the Oracle Cloud employees will be hired, fired and promoted, all of these actions may require changes to the Oracle Cloud Applications (create user and assign roles, end-date user or grant/revoke roles). This maintenance must be executed by the customer’s application security administrator with their application pod.

Integration Monitoring & Troubleshooting

» Your solution may include integrations with other applications or entities that are not part of Oracle-delivered seeded cloud applications. If this is the case, then a resource from the customer must be tasked to monitor that execution status of those integrations (both inbound and outbound) to ensure that things are running smoothly. This resource would also be responsible for conducting analysis into any execution issues and collaborate with external application owners to restore the integration to a steady state. This person would also open and support any integration-related SRs with Oracle Support if initial analysis points to an Oracle Cloud Applications issue.

Update Testing

» On a periodic basis (quarterly by default, monthly by customer opt-in), Oracle will deliver service updates via a pre-scheduled maintenance update. This update is applied to your non-production environment(s) on the first weekend of the quarter and then applied to your production environment on the third weekend of the quarter.

» In between these two maintenance outages, the customer has the opportunity to execute appropriate testing to ensure that the update to production environment will not adversely affect their business continuity and create any issues with their unique process.

» Please note that Oracle conducts comprehensive functional testing in a standard ERP Cloud services environment that contains a standard model of configuration and transaction data. Oracle does not have access to customer specific configurations and transactions for testing purposes. Therefore, to minimize the risk of an unplanned disruption of services, Oracle recommends that our customers perform appropriate functional testing as part of the update maintenance cycle.

» If needed, the customer will manage and execute this required testing in the test pod and report any issues found via a priority service request (SR) with Oracle Support to work the issue to resolution before the scheduled production maintenance.

Conclusion

Customers choose Oracle ERP Cloud Service with an expectation of achieving faster time to value through shorter implementation timelines. To successfully meet this expectation, system integrators are advised to ensure they follow through on the following steps:

» Gain a thorough knowledge of Oracle ERP Cloud Service application tools and functionality through attending Oracle University training and/or self-paced options accessed via the Oracle Cloud Learning Center.

» Adopt a structured implementation method such as OUM Cloud Application Services Implementation Approach that focuses on adoption of standard functionality and streamlining of business processes.

» Evaluate environment needs prior to the start of the project and incorporate adequate service lead times in your project plan for any required maintenance such as additional languages for additional environments or P2T copies.

» Have a solid understanding of the configuration, integration, data migration, and extensibility tools that are available to Oracle ERP Cloud Service implementations, and how to leverage them to expedite the implementation process.

» Take quarterly cloud updates and upgrade cycles into account when planning the cut over date for go-live for the Production environment.